

SEQUENCE LISTING

<110> Clinton, Gail M.
Evans, Adam
Henner, William D.

<120> HER-2 BINDING ANTAGONISTS

<130> 49321-16

<140> US 09/506,079

<141> 2000-02-16

<150> US 09/234,208

<151> 1999-01-20

<160> 10

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<211> 79

<212> PRT

<213> Homo Sapiens

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<221> Variable

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<223> Applicants herein disclose Thr and Ser sequence variants at this position

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<223> Applicants herein disclose Leu and Pro sequence variants at this position

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<223> Applicants herein disclose Leu and Gln sequence variants at this position

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<223> Applicants herein disclose Met and Leu sequence variants at this position

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<223> Applicants herein disclose Gly, Asp, Ala and Val sequence variants at this position

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<223> Applicants herein disclose Leu and Ile sequence variants at this position

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<223> Applicants herein disclose Pro and Arg sequence variants at this position

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<223> Applicants herein disclose Asp and Asn sequence variants at this position

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Gly	Xaa	His	Ser	Xaa	Xaa	Pro	Arg	Pro	Ala	Ala	Val	Pro	Val	Pro	Xaa
				5					10					15	
Arg	Xaa	Gln	Pro	Xaa	Pro	Ala	His	Pro	Val	Leu	Ser	Phe	Leu	Arg	Pro
			20					25					30		
Ser	Trp	Asp	Xaa	Val	Ser	Ala	Phe	Tyr	Ser	Leu	Pro	Leu	Ala	Pro	Leu
		35					40					45			
Ser	Pro	Thr	Ser	Val	Xaa	Ile	Ser	Pro	Val	Ser	Val	Gly	Arg	Gly	Xaa
	50					55					60				
Asp	Pro	Asp	Ala	His	Val	Ala	Val	Xaa	Leu	Ser	Arg	Tyr	Glu	Gly	
65					70					75					

<210> 2

<211> 419

<212> PRT

<213> Homo Sapiens

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<223> Applicants herein disclose Leu and Pro sequence variants at this position

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<223> Applicants herein disclose Pro and Leu sequence variants at this position

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<222> 356

<223> Applicants herein disclose Leu and Gln sequence variants at

this position

<220>

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<223> Applicants herein disclose Met and Leu sequence variants at this position

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<222> 376

<223> Applicants herein disclose Leu and Ile sequence variants at this position

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<223> Applicants herein disclose Pro and Arg sequence variants at this position

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<223> Applicants herein disclose Pro and Leu sequence variants at this position

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<222> 413

<223> Applicants herein disclose Asp and Asn sequence variants at this position

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Met	Glu	Leu	Ala	Ala	Leu	Cys	Arg	Trp	Gly	Leu	Leu	Leu	Ala	Leu	Leu		
				5					10					15			
Pro	Pro	Gly	Ala	Ala	Ser	Thr	Gln	Val	Cys	Thr	Gly	Thr	Asp	Cys	Lys		
			20					25					30				
Leu	Arg	Leu	Pro	Ala	Ser	Pro	Glu	Thr	His	Leu	Asp	Met	Leu	Arg	His		
			35				40					45					
Leu	Tyr	Gln	Gly	Cys	Gln	Val	Val	Gln	Gly	Asn	Leu	Glu	Leu	Thr	Tyr		
	50					55				60							
Leu	Pro	Thr	Asn	Ala	Ser	Leu	Ser	Phe	Leu	Gln	Asp	Ile	Gln	Glu	Val		
	65				70				75						80		
Gln	Gly	Tyr	Val	Leu	Cys	Ala	His	Asn	Gln	Val	Arg	Gln	Val	Pro	Leu		
			85					90						95			
Gln	Arg	Leu	Arg	Ile	Val	Arg	Gly	Thr	Gln	Leu	Phe	Glu	Asp	Asn	Tyr		
			100					105					110				
Ala	Leu	Ala	Val	Leu	Asp	Asn	Gly	Asp	Pro	Leu	Arg	Arg	Thr	Thr	Pro		
		115					120					125					
Val	Thr	Gly	Ala	Ser	Pro	Gly	Gly	Leu	Arg	Glu	Leu	Gln	Leu	Arg	Ser		
	130					135					140						
Leu	Thr	Glu	Cys	Leu	Lys	Gly	Gly	Val	Leu	Ile	Gln	Arg	Asn	Pro	Gln		
	145				150					155					160		
Leu	Cys	Tyr	Gln	Asp	Thr	Ile	Leu	Trp	Lys	Asp	Ile	Phe	His	Lys	Asn		

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      165      170      175
Asn Gln Leu Ala Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys
      180      185      190
His Pro Cys Ser Pro Cys Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser
      195      200      205
Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys Ala Gly Gly Cys
      210      215      220
Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys
      225      230      235
Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu
      245      250      255
His Phe Asn His Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val
      260      265      270
Thr Tyr Asn Thr Asp Thr Phe Glu Ser Cys Pro Asn Pro Glu Gly Arg
      275      280      285
Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro Tyr Asn Lys Leu
      290      295      300
Ser Thr Asp Val Gly Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln
      305      310      315
Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys
      325      330      335
Pro Cys Ala Arg Gly Xaa His Ser Xaa Xaa Pro Arg Pro Ala Val
      340      345      350
Pro Val Pro Xaa Arg Xaa Gln Pro Xaa Pro Ala His Pro Val Leu Ser
      355      360      365
Phe Leu Arg Pro Ser Trp Asp Xaa Val Ser Ala Phe Tyr Ser Leu Pro
      370      375      380
Leu Ala Pro Leu Asp Pro Thr Ser Val Xaa Ile Ser Pro Val Ser Val
      385      390      395
Gly Arg Gly Xaa Asp Pro Asp Ala His Val Ala Val Xaa Leu Ser Arg
      405      410      415
Tyr Glu Gly

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<210> 3

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<213> Artificial Sequence

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<223> HER-2-specific oligonucleotide primer

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tgagcaccat ggagctggc 19

<210> 4

<211> 22

<212> DNA

<213> Artificial Sequence

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<223> HER-2-specific oligonucleotide primer

<400> 4

tccggcagaa atgccaggct cc 22

<210> 5

<211> 22
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<223> HER-2 cDNA-specific oligonucleotide primer

<400> 5
aacacagcgg tgtgagaagt gc 22

<210> 6
<211> 21
<212> DNA
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<223> HER-2 ECDIIIa-region-specific oligonucleotide primer

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ataccgggac aggtcaacag c 21

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<212> DNA
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<210> 8
<211> 22
<212> DNA
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<223> HER-2 exon-specific oligonucleotide primer

<400> 8
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<223> HER-2 cDNA-specific oligonucleotide primer

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gcacggatcc atagcagact gaggagg 27

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<223> Applicants disclose C, T, A and G variants at this position

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Gly	Xaa	His	Ser	Xaa	Xaa	Pro	Arg	Pro	Ala	Ala	Val	Pro	Val	Pro	
				5					10					15	

cwg	cgc	atr	cag	cct	gnc	cca	gcc	cac	cct	gtc	cta	tcc	ttc	ctc	90
Xaa	Arg	Xaa	Gln	Pro	Xaa	Pro	Ala	His	Pro	Val	Leu	Ser	Phe	Leu	
				20					25					30	

aga	ccc	tct	tgg	gac	mta	gtc	tct	gcc	ttc	tac	tct	cta	ccc	ctg	135
Arg	Pro	Ser	Trp	Asp	Xaa	Val	Ser	Ala	Phe	Tyr	Ser	Leu	Pro	Leu	
				35					40					45	

gcc	ccc	ctc	agc	cct	aca	agt	gtc	cst	ata	tcc	cct	gtc	agt	gtg	180
Ala	Pro	Leu	Ser	Pro	Thr	Ser	Val	Xaa	Ile	Ser	Pro	Val	Ser	Val	
				50					55					60	

ggg	agg	ggc	cyg	gac	cct	gat	gct	cat	gtg	gct	ggt	sac	ctg	tcc	225
Gly	Arg	Gly	Xaa	Asp	Pro	Asp	Ala	His	Val	Ala	Val	Xaa	Leu	Ser	
				65					70					75	

cgg	tat	gaa	ggc	tga											240
Arg	Tyr	Glu	Gly												